

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12773	(424/85.1; 530/351,397,399; 514/12).ccls.	US-PGPUB; USPAT	OR	ON	2005/09/19 10:17
L2	31027	bfgf or fgf\$2 or g\$1csf or ilgf\$2 or igf\$2 or vegf	US-PGPUB; USPAT	OR	ON	2005/09/19 10:18
L3	26565	(fibroblast or insulin\$5 or (insulin adj like) or endothelial\$5 or (endothelial adj cell)) adj growth adj factor or granulocyte adj colony adj stimulating adj factor	US-PGPUB; USPAT	OR	ON	2005/09/19 10:33
L4	4837	I1 and (I2 or I3)	US-PGPUB; USPAT	OR	ON	2005/09/19 10:33
L5	3487	penta\$1peptide\$1	US-PGPUB; USPAT	OR	ON	2005/09/19 10:33
L6	84	I4 and I5	US-PGPUB; USPAT	OR	ON	2005/09/19 10:33
L7	3582	(I2 or I3) same conjugat\$	US-PGPUB; USPAT	OR	ON	2005/09/19 10:34
L8	709	I1 and I7	US-PGPUB; USPAT	OR	ON	2005/09/19 10:34
L9	112	((I2 or I3) same conjugat\$) same (lys! or lysine)	US-PGPUB; USPAT	OR	ON	2005/09/19 10:34
L10	47	I1 and I9	US-PGPUB; USPAT	OR	ON	2005/09/19 10:34
L11	130	I6 or I10	US-PGPUB; USPAT	OR	ON	2005/09/19 10:34

Checked L4
JRL
9-19-2005

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	352	((bfgf or fgf\$2 or g\$1csf or ilgf\$2 or igf\$2 or vegf) and (conjugat\$ or penta\$1peptide\$1)).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 09:56
L2	12133	(lys! or lysine).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 09:55
L3	57	I1 and I2	US-PGPUB; USPAT	OR	ON	2005/09/19 09:55
L4	2193	((fibroblast or insulin\$5 or (insulin adj like) or endothelial\$5 or (endothelial adj cell)) adj growth factor) and (conjugat\$ or penta\$1peptide\$1)).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 09:59
L5	139	I2 and I4	US-PGPUB; USPAT	OR	ON	2005/09/19 09:58
L6	57	((granulocyte adj colony adj stimulating adj factor) and (conjugat\$ or penta\$1peptide\$1)).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 10:00
L7	12135	I2 and I6	US-PGPUB; USPAT	OR	ON	2005/09/19 09:59
L8	15	I2 and I6	US-PGPUB; USPAT	OR	ON	2005/09/19 09:59
L9	400	((lys! or lysine) and (conjugat\$ or penta\$1peptide\$1)).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 10:00
L10	5	((lys! or lysine) and (conjugat\$ and penta\$1peptide\$1)).clm.	US-PGPUB; USPAT	OR	ON	2005/09/19 10:01
L11	169	I3 or I5 or I8 or I10	US-PGPUB; USPAT	OR	ON	2005/09/19 10:01

Checked L11
 JR
 9-19-2005

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	845	(bfgf or fgf\$2 or g\$1csf or ilgf\$2 or igf\$2 or vegf) with conjugat\$	US-PGPUB; USPAT	OR	ON	2005/09/19 09:49
L2	57	((bfgf or fgf\$2 or g\$1csf or ilgf\$2 or igf\$2 or vegf) with conjugat\$) same (lys! or lysine)	US-PGPUB; USPAT	OR	ON	2005/09/19 09:48
L3	5	I1 and penta\$1peptide\$1	US-PGPUB; USPAT	OR	ON	2005/09/19 09:48
L4	197	(bfgf or fgf\$2 or g\$1csf or ilgf\$2 or igf\$2 or vegf) and conjugat\$	EPO; JPO; DERWENT	OR	ON	2005/09/19 09:49
L5	18023	penta\$1peptide\$1 or lys! or lysine	EPO; JPO; DERWENT	OR	ON	2005/09/19 09:49
L6	17	I4 and I5	EPO; JPO; DERWENT	OR	ON	2005/09/19 09:49

Checked L2, L3, L6

JRL

9-19-2005

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	ikvav and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 08:51
L2	6	(435/402).ccls. and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 08:52
L3	0	his! adj lys! adj asn! adj gln! adj thr! and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 08:52
L4	8	((("530"/\$.ccls. or (514/2-21).ccls.) and (((promot\$ or enhanc\$) with (cell adj growth or cell adj adhesion or anchorage\$1dependent or anchorage adj dependent)) with (peptide or polypeptide or protein))) and (((promot\$ or enhanc\$) same (cell adj growth or cell adj adhesion or anchorage\$1dependent or anchorage adj dependent)).clm.) and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 08:58
L5	19	((530/324-330,345).ccls. and conjugat\$.clm.) and (lys! or lysine) and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:02
L6	1	((poly\$3lysine or poly adj2 lysine) with (conjugat\$ or cross\$1link\$3)) and ((435/373-408,420-431).ccls.) and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:04
L7	6	(530/330; 514/17).ccls. and conjugat\$.clm. and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:07
L8	11	((cell near3 cultur\$) same conjugat\$) and ((514/17,21; 530/330,345,409; 435/384,402, 404,405).ccls.) and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:09
L9	4	((coat\$ with conjugat\$) and ((435/384,402,404,405).ccls.)) or ((coat\$ with conjugat\$) with cultur\$)) and @pd>"20050428"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:14
L10	5	penta\$1peptide\$1 same (cultur\$ or defined adj (media or medium)) and @pd>"20050424"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:30
L11	31	penta\$1peptide\$1 with (conjugat\$ or link\$ or attach\$) and @pd>"20050424"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:34

L12	43	(penta\$1peptide\$1.clm. or penta\$1peptide\$1 same (conjugat\$ or link\$ or attach\$)) and "435"/\$.ccls. and @pd>"20050424"	US-PGPUB; USPAT	OR	ON	2005/09/19 09:37
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Checked L4, L2, L3, L9, L5, L6, L7,
L8, L9, L10, L11, L12

JRL 9-19-2005

STIC-Biotech/ChemLib

166140

Mg

From: Russel, Jeffrey
Sent: Monday, September 19, 2005 11:27 AM
To: STIC-Biotech/ChemLib
Subject: Database Search Request

RECEIVED
SEP 19 2005
STIC-BIOTECH/CHEM LIB
(STIC)

Requester:
Jeffrey Russel (TC1600)
Art Unit:
1654
Employee Number:
62785
Office Location:
REM 3D19
Phone Number:
571-272-0969
Mailbox Number:
REM 3C18

Case serial number:
09/992,124

Class / Subclass(es):
NA

Earliest Priority Filing Date:
NA

Format preferred for results:
Diskette

Search Topic Information:

Please do an interference search of SEQ ID NO:34 (HKNQT) in the U.S. patent application sequence databases.

Special Instructions and Other Comments:

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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OM protein - protein search, using sw model

Run on: September 20, 2005, 18:18:25 ; Search time 79 Seconds
(without alignments)
10.675 Million cell updates/sec

Title: US-09-992-124C-34
Perfect score: 29
Sequence: 1 HKNQT 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 776264 seqs, 168659918 residues

Total number of hits satisfying chosen parameters: 776264

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New:*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
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8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Search completed: September 20, 2005, 18:32:22
Job time : 80 secs

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OM protein - protein search, using sw model

Run on: September 20, 2005, 18:17:56 ; Search time 501 Seconds
(without alignments)
11.657 Million cell updates/sec

Title: US-09-992-124C-34
Perfect score: 29
Sequence: 1 HKNQT 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 6959266 seqs, 1168006243 residues

Total number of hits satisfying chosen parameters: 6959266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_Main:*

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- 3: /cgn2_6/ptodata/1/paa/US07_COMB.pep:*
- 4: /cgn2_6/ptodata/1/paa/US080_COMB.pep:*
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Search completed: September 20, 2005, 18:31:01
Job time : 510 secs

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OM protein - protein search, using sw model

Run on: September 20, 2005, 18:19:11 ; Search time 170 Seconds
(without alignments)
11.910 Million cell updates/sec

Title: US-09-992-124C-34
Perfect score: 29
Sequence: 1 HKNQT 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1812044 seqs, 404927589 residues

Total number of hits satisfying chosen parameters: 1812044

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
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- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
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- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep:*
- 18: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep:*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	29	100.0	11	15	US-10-613-472-5	Sequence 5, Appli
3	29	100.0	11	16	US-10-613-765-5	Sequence 5, Appli
4	29	100.0	27	16	US-10-465-498-159	Sequence 159, App
5	29	100.0	44	15	US-10-424-599-177045	Sequence 177045,
6	29	100.0	46	16	US-10-437-963-161908	Sequence 161908,
7	29	100.0	47	16	US-10-425-115-248064	Sequence 248064,
8	29	100.0	70	16	US-10-425-115-307089	Sequence 307089,
9	29	100.0	72	15	US-10-424-599-189409	Sequence 189409,
10	29	100.0	94	16	US-10-425-115-307452	Sequence 307452,
11	29	100.0	166	15	US-10-424-599-185481	Sequence 185481,
12	29	100.0	171	16	US-10-437-963-122535	Sequence 122535,
13	29	100.0	176	17	US-10-722-045-97	Sequence 97, Appl
14	29	100.0	177	16	US-10-437-963-197724	Sequence 197724,
15	29	100.0	193	16	US-10-767-701-62389	Sequence 62389, A
16	29	100.0	276	16	US-10-473-127-1971	Sequence 1971, Ap
17	29	100.0	276	16	US-10-473-127-2002	Sequence 2002, Ap
18	29	100.0	363	15	US-10-094-749-1983	Sequence 1983, Ap
19	29	100.0	380	10	US-09-802-640-28	Sequence 28, Appl
20	29	100.0	380	15	US-10-403-902A-28	Sequence 28, Appl
21	29	100.0	380	17	US-10-831-070-244	Sequence 244, App
22	29	100.0	399	17	US-10-831-070-246	Sequence 246, App
23	29	100.0	447	13	US-10-047-542-82	Sequence 82, Appl
24	29	100.0	449	16	US-10-481-531A-1	Sequence 1, Appli
25	29	100.0	449	16	US-10-481-531A-3	Sequence 3, Appli
26	29	100.0	453	16	US-10-473-127-1973	Sequence 1973, Ap
27	29	100.0	453	16	US-10-473-127-1986	Sequence 1986, Ap
28	29	100.0	453	16	US-10-473-127-1988	Sequence 1988, Ap
29	29	100.0	453	16	US-10-473-127-1989	Sequence 1989, Ap
30	29	100.0	454	16	US-10-473-127-1990	Sequence 1990, Ap
31	29	100.0	480	16	US-10-473-127-730	Sequence 730, App
32	29	100.0	481	16	US-10-473-127-749	Sequence 749, App
33	29	100.0	505	13	US-10-047-542-81	Sequence 81, Appl
34	29	100.0	505	16	US-10-473-127-1972	Sequence 1972, Ap
35	29	100.0	505	16	US-10-473-127-1995	Sequence 1995, Ap
36	29	100.0	505	16	US-10-473-127-1996	Sequence 1996, Ap
37	29	100.0	505	16	US-10-473-127-1997	Sequence 1997, Ap
38	29	100.0	505	16	US-10-473-127-1998	Sequence 1998, Ap
39	29	100.0	505	16	US-10-473-127-1999	Sequence 1999, Ap
40	29	100.0	505	16	US-10-473-127-2000	Sequence 2000, Ap
41	29	100.0	505	16	US-10-473-127-2001	Sequence 2001, Ap
42	29	100.0	505	17	US-10-872-198-142	Sequence 142, App
43	29	100.0	505	17	US-10-883-576-3	Sequence 3, Appli
44	29	100.0	505	17	US-10-883-576-6	Sequence 6, Appli
45	29	100.0	505	20	US-11-058-065-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-867-852-5

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; Sequence 5, Application US/09867852
; Patent No. US20020147324A1
; GENERAL INFORMATION:
; APPLICANT: Ausubel, Frederick M.
; APPLICANT: Staskawicz, Brian J..
; APPLICANT: Brent, Andrew F.
; APPLICANT: Dahlbeck, Douglas
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Kunkel, Barbara N.
; APPLICANT: Mindrinos, Michael N.
; APPLICANT: Yu, Guo-Liang
; TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND
; TITLE OF INVENTION: DETECTION METHODS
; FILE REFERENCE: 00786/254002
; CURRENT APPLICATION NUMBER: US/09/867,852
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/301,085
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/310,912
; PRIOR FILING DATE: EARLIER FILING DATE: 1994-09-22
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/227,360
; PRIOR FILING DATE: EARLIER FILING DATE: 1994-04-13
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-09-867-852-5

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Query Match          100.0%;  Score 29;  DB 9;  Length 11;
Best Local Similarity 100.0%;  Pred. No. 10;
Matches      5;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

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Qy      1 HKNQT 5
        |||||
Db      5 HKNQT 9

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Search completed: September 20, 2005, 18:35:19
Job time : 171 secs

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OM protein - protein search, using sw model

Run on: September 20, 2005, 18:14:50 ; Search time 22 Seconds
(without alignments)
16.966 Million cell updates/sec

Title: US-09-992-124C-34
Perfect score: 29
Sequence: 1 HKNQT 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	29	100.0	11	2	US-08-310-912A-5	Sequence 5, Appli
2	29	100.0	11	3	US-08-841-089-5	Sequence 5, Appli
3	29	100.0	11	3	US-09-301-085-5	Sequence 5, Appli
4	29	100.0	11	5	PCT-US95-04570-5	Sequence 5, Appli
5	29	100.0	11	5	PCT-US95-04589-5	Sequence 5, Appli
6	29	100.0	82	4	US-09-328-352-6645	Sequence 6645, Ap
7	29	100.0	96	6	5284931-4	Patent No. 5284931
8	29	100.0	96	6	5284931-4	Patent No. 5284931
9	29	100.0	100	1	US-08-473-981A-7	Sequence 7, Appli
10	29	100.0	100	2	US-08-474-087-7	Sequence 7, Appli
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15	29	100.0	505	3	US-08-318-039A-1	Sequence 1, Appli
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39	29	100.0	1375	3	US-08-665-259-26	Sequence 26, Appl
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ALIGNMENTS

RESULT 1

US-08-310-912A-5

; Sequence 5, Application US/08310912A

; Patent No. 5981730

; GENERAL INFORMATION:

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; TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND DETECTION

; TITLE OF INVENTION: METHODS

; NUMBER OF SEQUENCES: 208

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

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; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2904
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/310,912A
; FILING DATE: September 22, 1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/227,360
; FILING DATE: April 13, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lech, Karen F.
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; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-310-912A-5

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Best Local Similarity 100.0%;  Pred. No. 5;
Matches      5;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

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Db      5 HKNQT 9

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